

DERWENT-ACC-NO: 2003-264932

DERWENT-WEEK: 200326

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TITLE: Neutron pulse tube

INVENTOR: PLESHAKOVA, R P

PATENT-ASSIGNEE: AUTOMATION RES INST[AUTOR]

PRIORITY-DATA: 2000RU-0130678 (December 7, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
RU 2198441 C2	February 10, 2003	N/A
G21G 004/02		000

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
RU 2198441C2	N/A	2000RU-0130678
December 7, 2000		

INT-CL (IPC): G21G004/02

ABSTRACTED-PUB-NO: RU 2198441C

BASIC-ABSTRACT:

NOVELTY - Pulse tube that may be used, for example, for developing neutron pulse generators, for investigating geophysical and commercial boreholes by neutron pulse logging as well as apparatuses for detecting dopes and explosives has sealed evacuated envelope containing ion source, ion-optic system, gas absorber, and target saturated with hydrogen nuclides. Newly introduced in tube is alpha-particle detector inside additional electrode placed at certain angle to neutron pulse tube in opposition to target and in close proximity of the latter. Additional electrode functions at the same time as screen of detector sensing element whose injection current lead is connected to additional electrode body and signal current lead is insulated relative to neutron tube case.

USE - Low-voltage acceleration engineering and geophysical

instrumentation
engineering.

ADVANTAGE - Ability of checking neutrons for escape beyond pulse.

DESCRIPTION OF DRAWING(S) - The drawing shows the above neutron tube.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: NEUTRON PULSE TUBE

DERWENT-CLASS: H01 K08 S03

CPI-CODES: H01-A01; K08-X; K09-H;

EPI-CODES: S03-C02;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2003-069320

Non-CPI Secondary Accession Numbers: N2003-210208

